

SURFACE MOUNT SILICON DUAL PAIR SWITCHING DIODE



Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLD2838 type is a dual pair of common cathode silicon switching diodes manufactured by the epitaxial planar process and packaged in an epoxy molded SOT-563 surface mount case. This device is ideal for high speed switching applications.

MARKING CODE: CSQ

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	75	V
Average Forward Current	IO	200	mA
Peak Forward Current	IFM	300	mA
Power Dissipation	PD	250	mW
Operating and Storage Junction Temperature	Т _Ј , Т _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A =25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =50V		100	nA
BVR	I _R =100μΑ	75		V
VF	I _F =10mA		1.0	V
VF	I _F =50mA		1.0	V
VF	I _F =100mA		1.2	V
Сј	V _R =0, f=1.0MHz		4.0	pF
t _{rr}	$I_R=I_F=10$ mA, $I_{rr}=1.0$ mA, $R_L=100\Omega$		4.0	ns

R3 (15-June 2015)



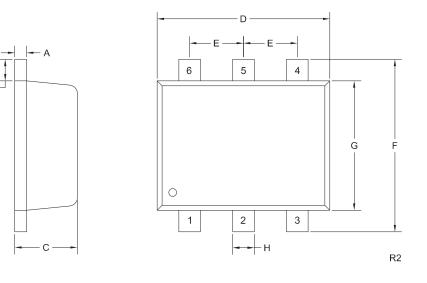
CMLD2838

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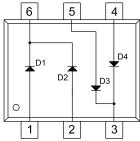
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SOT-563 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A	0.0027	0.007	0.07	0.18		
B	0.008		0.20			
C	0.017	0.024	0.45	0.60		
D	0.059	0.067	1.50	1.70		
E	0.020		0.50			
F	0.059	0.067	1.50	1.70		
G	0.043	0.051	1.10	1.30		
Н	0.006	0.012	0.15	0.30		
SOT-563 (REV: R2)						

LEAD CODE: 1) Anode D1

2) Anode D2 3) Cathode D3, D4 4) Anode D4 5) Anode D3 6) Cathode D1, D2

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OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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